













ADVANTAGES OF AN ANTICOAGULATION CLINIC

Point of care testing (POCT)	Specialized and continuous staff
Personalized education and understanding	Protocol standardization
Face to face contact with a healthcare professional	Data tracking
Improved communication with healthcare team	Increased efficiencies
Increased satisfaction for care	Revenue generation and cost savings

Bungard TJ, et al. Open Med. 2009 Feb 2;3(1):e16-21.; Manzoor BS, et al. Ann Pharmacother. 2017 Dec;51(12):1122-1137.





WHICH OF THE FOLLOWING ESTABLISHES THE GREATEST NEED FOR A PHARMACIST-RUN ANTICOAGULATION CLINIC FROM A REGULATORY STANDPOINT? (OBJECTIVES #1 & #2)

- a. Ensuring compliance with National Patient Safety Goals
- b. Legally pharmacists are required to manage warfarin
- c. National guidelines recommend pharmacist management







WHICH OF THE FOLLOWING BEST DESCRIBES THE REASON FOR DEVELOPING A PHARMACIST-DRIVEN ANTICOAGULATION CLINIC? (OBJECTIVE #1)

- a. Improved outcomes for patients
- b. Less need for space and resources
- c. Patient willingness to come to clinic





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- Licensing of pharmacists and providers
- Collaborative drug therapy management per state law
- Ensure protocols mirror most timely national guidelines
- Liability insurance
- Establish an error reporting system
- Billing



SCOPE OF SERVICE CONSIDERATIONS

- Which medications are covered?
 - PO vs. Parenteral
 - Warfarin vs. DOACs
- What is included in a visit?
 - Medication reconciliation
 - Vital signs
 - Venous blood draws
 - Prescribing vs. Refilling
 - Dispensing
- Patient population (risk and acuity)

DEFINE TARGET PATIENT POPULATION		Telephone Management	In Person Management
	Population	 Nursing home, ALF, SNF, etc. Homebound Self-managed 	Clinic patients
	Advantages	• Efficient calls	 Reimbursement Patient relationship
	Challenges	 Reimbursement Communication and coordination of care 	 Finite time Increased cost to patient
			patient





	Staff	Role(s)
	Physician	Chief officerCollaborative practice agreement
STAFFING MODEL	Pharmacist	 Patient visits and education POCT administration Prescriptions Quality control Telephone orders and monitoring
	RN	 Patient visits Vital signs POCT Telephone orders and monitoring
	PA/APRN	 Patient visits and education POCT administration Prescriptions Telephone orders and monitoring
	Pharmacy Technician	POCTMedication reconciliation
	Administrative assistant	 Scheduling Billing Fax and phone transmission

STAFFING MODEL			
Staff	Pros	Cons	
Physician	Clinical and financial autonomy	\$\$\$Time restrictions	
Pharmacist	Extensive pharmacotherapy knowledgeAutonomy under CPA	\$Incident to billing	
RN	 Able to draw venous blood samples Vital signs and physical assessment skills 	 Cannot work under CPA Incident to billing Training required 	
PA/APRN	Clinical and financial autonomy	 \$\$Time restrictions	
Pharmacy Technician	 Fairly inexpensive POCT Medication reconciliation 	Must work directly under a pharmacist	
Administrative assistant	 Streamline logistics Improve efficiency by preventing interruption 	• Unable to cross-train	





WHICH STAFF MEMBER WOULD BE MOST SIGNIFICANT TO ENSURE EMPLOYMENT/ INCENTIVE OF FOR THIS STAFFING MODEL? (OBJECTIVE #2 & #3)

- a. Medical director
- b. Registered nurse
- c. Receptionist









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OVERALL CLINIC GOALS

Optimize SAFETY and EFFECTIVENESS of anticoagulation therapy

- Determine appropriateness of AC therapy
- Systematic and reproducible dosing
- Ongoing patient, caregiver, and provider education
- · Minimize/resolve side-effects, ADRs, and drug-drug interactions

Longterm goals

- Financial benefits
- Patient satisfaction
- Healthcare efficiency

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c. Requiring a PGY2 residency completed in ambulatory care by all employed pharmacists





PROTOCOL DEVELOPMENT (PER SEC. 20-631)		
Requirement	Considerations	
Specific medications to be managed	 Warfarin DOACs LMWH Vitamin K 	
Terms in which therapy is modified or implemented	INR algorithmDosing protocolsTablet formulations	
Conditions requiring provider notification	What would be constituted as criticalNon-protocol	
Laboratory tests	 INR SCr Hepatic panel:Alb, LFTs, T.bil CBC 	



- Executive body approval (e.g. P&T Committee)
- Documentation in the EMR
- Report encounters to provider within 30 days
 - EMR documentation constitutes this
- Copy of protocol in patients EMR
 - Attachment to encounter/note
 - Scanned in media section
 - o Attachment to anticoagulation episode
- Hard copy available for inspection
- Ensure signatures of participants up to date



https://law.justia.com/codes/connecticut/2022/title-20/chapter-400j/section-20-631/.









- b. A private space
- c. A white coat





ADDITIONAL COST CONSIDERATIONS	 Computer Printer Scanner Fax machine Telephone Scale Software (Consider what is at your disposal) Point of Care Testing (including supplies) Personnel Salaries
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- a. Reducing hours once less time is needed for appointments
- b. Routine evaluation and reporting of clinical outcomes
- c. Transitioning majority of patients to a DOAC



	Ensure proper baseline knowledge	Ongoing competency	Different states have various requirements for licensure
	Utilization of learners (e.g. students, residents)	Maintain documentation of training, CEs	Propagate competency through RPh presentations
	residents)		presentations
QL	JALITY CONTR	OL AND ASSURA	NCE: PERSONNEL



AS YOU RUN REPORTS FOR THE FIRST YEAR OF SERVICE OF YOUR ANTICOAGULATION CLINIC, WHAT RESULTS DO YOU EXPECT TO SEE BASED ON PREVIOUS LITERATURE? (LO #1)

- a. Decreased patient satisfaction scores
- b. Increased frequency of bleeding
- c. Improved time in therapeutic range





